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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/680,049	10/07/2003	Howard Greenblatt	103488-0011	8291

21125 7590 08/29/2005

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EXAMINER

EHICHIOYA, FRED I

ART UNIT	PAPER NUMBER
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2162

DATE MAILED: 08/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Supplemental
Notice of Allowability**

Application No.

10/680,049

Examiner

Fred I. Ehichioya

Applicant(s)

GREENBLATT ET AL.

Art Unit

2162

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 6/20/2005.
2. ☒ The allowed claim(s) is/are 1, 4 - 10, and 42.
3. ☒ The drawings filed on 07 October 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 6/20/2005
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.



**SHAHID ALAM
PRIMARY EXAMINER**

Response to Rule 312 Communication	Application No.	Applicant(s)	
	10/680,049	GREENBLATT ET AL.	
	Examiner	Art Unit	
	Fred I. Ehichioya	2162	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

1. ☒ The amendment filed on 20 June 2005 under 37 CFR 1.312 has been considered, and has been:

a) ☒ entered.

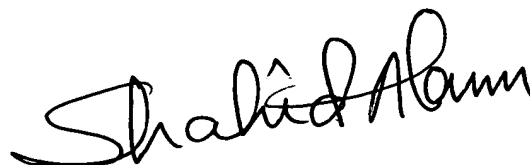
b) ☐ entered as directed to matters of form not affecting the scope of the invention.

c) ☐ disapproved because the amendment was filed after the payment of the issue fee.

Any amendment filed after the date the issue fee is paid must be accompanied by a petition under 37 CFR 1.313(c)(1) and the required fee to withdraw the application from issue.

d) ☐ disapproved. See explanation below.

e) ☐ entered in part. See explanation below.



**SHAHID ALAM
PRIMARY EXAMINER**

DETAILED ACTION

1. This communication is responsive to the amendment filed 6/20/2005.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 6/20/2005 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is been considered by the examiner.

3. The amendment filed on June 20, 2005 under 37 CFR 1.312 has been considered and entered.

Examiner's Amendment

4. During telephone conversation with David J. Powsner, Attorney for the Applicant, Registration Number 31,868 on August 22, 2005 authorizations for this Examiner's amendment was given in a telephone interview.

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In the claims,

Please amend claim 1

1. A computer implemented method for identifying related triples in a ~~in a~~ resource description framework (RDF) data set, comprising:

A. executing the sub-steps of:

- (i) identifying as related a triple substantially matching a criteria;
- (ii) identifying as related a triple that is a direct ancestor of a triple identified in any of sub-steps in step A, and that is not in substantial conflict with the criteria;

where, for purposes hereof, a triple whose object is the subject of another triple is deemed a direct ancestor of that other triple, and, conversely, where a triple whose subject is the object of another triple is deemed a direct descendent of that other triple;

- (iii) identifying as related a triple ~~triples~~ (hereinafter "identified descendent") that is a direct descendent of a triple (hereinafter "identified ancestor") identified as related in any of sub-steps in step A, and which identified descendent
 - (a) is not associated with the identified ancestor via a predicate substantially matching a predicate named in the criteria, if any, and
 - (b) is not in substantial conflict with the criteria;
 - (c) is not associated with the identified ancestor via a predicate matching a predicate by which the identified ancestor is associated with a triple, if any, as a result of which the identified ancestor was identified during execution of sub-step (ii),

- B. generating an indication of RDF triples identified as related in step (A).

Please amend claim 42

42. A computer implemented method for identifying related triples in a ~~in-a~~ resource description framework (RDF) data set, comprising:

- A. executing the sub-steps of:

- (i) identifying as related a triple that is a direct ancestor of a triple identified in any of sub-steps in step A, and that is not in substantial conflict with the criteria;

where, for purposes hereof, a triple whose object is the subject of another triple is deemed a direct ancestor of that other triple, and, conversely, where a triple whose subject is the object of another triple is deemed a direct descendent of that other triple;

- (ii) identifying as related a triple ~~triples~~ (hereinafter "identified descendent") that is a direct descendent of a triple (hereinafter "identified ancestor") identified as related in any of sub-steps in step A, and which identified descendent

- (a) is not associated with the identified ancestor via a predicate substantially matching a predicate named in the criteria, if any, and
(b) is not in substantial conflict with the criteria;
(c) is not associated with the identified ancestor via a predicate matching a predicate by which the identified ancestor is associated with a triple,

if any, as a result of which the identified ancestor was identified during execution of sub-step (ii),

- B. generating an indication of RDF triples identified as related in step (A).

Allowable Subject Matter

1. Claims 1, 4 – 10 and 42 are allowed over the prior art of record.

The following is an examiner's statement of reasons for allowance:

The prior art of record, either singularly or in combination, fail to anticipate or render obvious the recited feature "where, for purposes hereof, a triple whose object is the subject of another triple is deemed a direct ancestor of that other triple, and, conversely, where a triple whose subject is the object of another triple is deemed a direct descendent of that other triple;

- (ii) identifying as related a triple (hereinafter "identified descendent") that is a direct descendent of a triple (hereinafter "identified ancestor") identified as related in any of sub-steps in step A, and which identified descendent

- (a) is not associated with the identified ancestor via a predicate substantially matching a predicate named in the criteria, if any, and

- (b) is not in substantial conflict with the criteria;

- (c) is not associated with the identified ancestor via a predicate matching a predicate by which the identified ancestor is associated with a triple, if any, as a result of which the identified ancestor was identified during execution of sub-step (ii).

The closest prior art of record US Pub 2003/0074352, discloses Resource

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description framework (RDF), subject, predicates and objects represented in a directed graph as shown on page 4, [0065] – [0068], but does not disclose identifying as related a triples (hereinafter "identified descendent") that is a direct descendent of a triple (hereinafter "identified ancestor") identified as related in any of sub-steps in step A, and which identified descendent

- (a) is not associated with the identified ancestor via a predicate substantially matching a predicate named in the criteria, if any, and
- (b) is not in substantial conflict with the criteria;
- (c) is not associated with the identified ancestor via a predicate by which the identified ancestor is associated with a triple.

The closest prior art of record US Pub 2002/0118688, discloses RDF triplets composed of a subject, predicate, and objects as shown on page 4, [0039, but does not disclose (identifying as related a triples (hereinafter "identified descendent") that is a direct descendent of a triple (hereinafter "identified ancestor") identified as related in any of sub-steps in step A, and which identified descendent

- (a) is not associated with the identified ancestor via a predicate substantially matching a predicate named in the criteria, if any, and
- (b) is not in substantial conflict with the criteria;
- (c) is not associated with the identified ancestor via a predicate by which the identified ancestor is associated with a triple.

The dependent claims, being definite, further limiting, and fully enabled by the specification are also allowed.

2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fred I. Ehichioya whose telephone number is 571-272-4034. The examiner can normally be reached on M - F 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Breene can be reached on 571-272-4107. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Fred I. Ehichioya
Patent Examiner
Art Unit 2162

August 22, 2005.


SHAHID ALAM
PRIMARY EXAMINER